



10 JUN 1913

W1302-0075

Misc. v. L. T. Channing A. G. No 247/48/51/61  
Profile

Patagonia

Grasson

247

Cusseldorf

Bmn. No 103?

248

Essen

Bmn. No 154?

251

as Lüneburg

Bmn 199

261

as Freiberg

Bmn No 384

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20 APR 1914  
LONDON



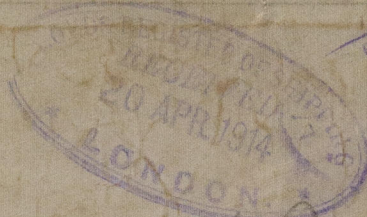
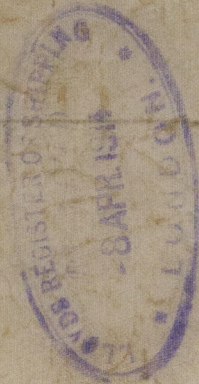
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Messrs. V. G. Tecklenburg & Co. No. 247/48/59/61  
Midship Edition

Patagonia  
Grandon

DB 150

- 247 ss. "Dusseldorf"  
Bmn. no. 103.
- 248 ss. "Essen"  
Bmn. no. 154.
- 259 ss. "Lüneburg"  
Bmn. no. 189.
- 261 ss. "Freiburg"  
384.

WB02-00762020



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(25) 27.6.11  
9.11.11  
19.12.11  
(24) 3.10.12

S.S. 243/44 - 247/48. +251. +261

Midship Section.

Scale 1/2" = 1 Foot.  
Class \* 100 A1.

Rule Length 451.625 Breadth 57' 0" Depth m<sup>ld</sup> to Upperdeck 29' 7 3/4" ditto to Poopdeck 37' 7 3/4"

Breadth 57, 0  
Depth 29, 646  
Length 451, 625  
39149 Longitudinal N<sup>o</sup>

Breadth to Length 7.923  
Depths " " to Upperd. 16.234  
" " " Poopd. 11.992  
Depth(d) for frames 17.646, where Lowerdeck 9.646

Equipment  
Under Deck 39149  
4/8 Poop and Forecastle 2364  
1/2 Deckhouses 362  
1/2 Charthouse 115  
Numeral 42.180

2 Bower Anchors, 250 lbs each, 200 fathoms 1/2" Stream Chain or 5" Steel wire to be supplied by the owners.  
1 Stream Anchor, 100 lbs, 25-2-14 130 " 3/4" Steel Torsion  
1 Hedge Anchor " " 11-1-0 40, 100 " 8 Hemp Hamper.  
300 Fathoms Stanchion cable 2 3/4" diam.

Poopdeck.

Upperdeck

2<sup>nd</sup> Deck.

H

G

F

E

Long Poop 38' 7 1/2" Forecastle 44' 6" 53'  
Beam Spacing 26 1/2" two rows 2 7/8" diam  
Pillars 6" 8" 3 3/4" x 50  
Beams 25" x 46  
Knees 30" x 36  
Stringer Plate 61" 60 to 37" x 44  
Deck Plating 37" x 36  
Stringer Angle 5" 6" 64 to 38 1/2" x 44  
Riv. 38" 3 1/2" x 36  
Butts quadruple for 7/8" length at ends  
Deck " Butts double for 7/8" single at ends  
Side Plating " single

Upperdeck  
Length of beam 52' 0" 26 1/2" inches  
Beam Spacing 26 1/2" inches  
Pillars two rows 8" 3 3/4" x 50  
Beams 25" x 46  
Knees ditto  
Stringer Plate 44" 36 to 14" 40  
Deck Plating 37" 36 to 14" 40  
Stringer Angle 5" 6" 64 to 38 1/2" x 44  
Riv. 38" 3 1/2" x 36  
Deckplating Rivet: Butts double for full length.  
Deckplating Rivet: Butts double for 7/8" length, single at ends.

Rule Built angles in inches.	Equivalent German Standard Section in inches.	Equivalent German Standard Section in Millimeter.
11 x 3 1/2 x 56	10 1/2 x 3 1/4 x 67.5	266.5 x 86.5 x 1425
10 x 3 1/2 x 54	9 1/2 x 3 1/4 x 59	244 x 85 x 1425
9 x 3 1/2 x 48	8 1/2 x 3 1/4 x 52	220 x 80 x 1313
8 1/2 x 3 x 46	8 x 3 1/4 x 53	206.5 x 86.5 x 1253
8 x 3 1/2 x 48	8 x 3 1/4 x 48	200 x 85 x 1212
7 1/2 x 3 1/2 x 44	7 1/2 x 3 1/4 x 48	190 x 80 x 1212

Hatches on Poopdeck  
Length Sides Ends  
19.88' 41 1/2" x 44 1/2" 40  
22.08' 41 1/2" x 44 1/2" 40  
22.08' 41 1/2" x 44 1/2" 40  
15.96' 41 1/2" x 44 1/2" 36  
24.3' 41 1/2" x 44 1/2" 42  
24.3' 41 1/2" x 44 1/2" 42  
Deck angles of Side Thickness.

Upperdeck Hatches.  
Length Sides Ends  
19.88' 41 1/2" x 44 1/2" 40  
22.08' 41 1/2" x 44 1/2" 40  
22.08' 41 1/2" x 44 1/2" 40  
15.96' 41 1/2" x 44 1/2" 36  
24.3' 41 1/2" x 44 1/2" 42  
24.3' 41 1/2" x 44 1/2" 42  
Deck angles of Side Thickness.

2<sup>nd</sup> Hatches  
Length Sides Ends  
19.88' 41 1/2" x 44 1/2" 40  
22.08' 41 1/2" x 44 1/2" 40  
22.08' 41 1/2" x 44 1/2" 40  
15.96' 41 1/2" x 44 1/2" 36  
24.3' 41 1/2" x 44 1/2" 42  
24.3' 41 1/2" x 44 1/2" 42  
Deck angles of Side Thickness.

Frames where no Lowerdeck 7" 3/4" x 44, Frames where Lowerdeck fitted 6" 3/4" x 48  
Frames in Engine and Boiler space 6" 3/4" x 44  
Frames above second Deck 6" 3/4" x 44  
Frame spacing 26 1/2" in Peaks 54"  
Webframes 22" x 44  
Floors in Peaks 46" Transomplate 51" x 50  
Sternframe and Rudder as per special plan to be submitted later.  
Poop Bulkhead, framing angle 10" 3 1/2" x 44 Plating 46"  
Stiffeners 6" 3/4" x 48  
Tunnel Plating 36" Top Plating under Hatches 46"  
Stiffeners angles 3 1/2" x 48

Cellular Double Bottom

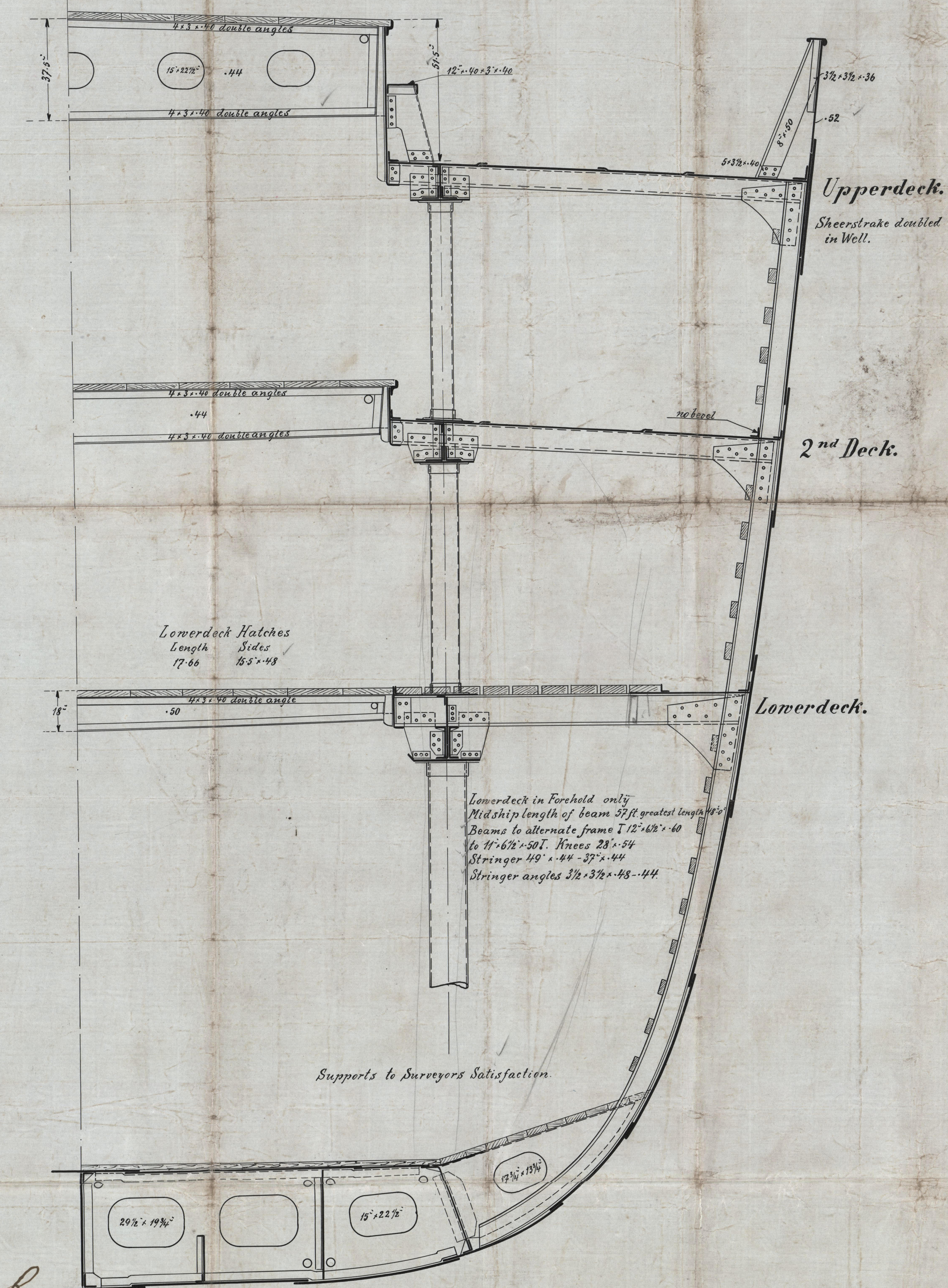
Plating	7/8"	Ends	Engine R.	Boiler Sp.	Angles	7/8"	Ends	Boiler Sp.
Centre girder	45" x 50	44	50	52	Centre girder Top	3 1/2" x 52	48	52
Side Girders	45" x 50	56	50	50	" " Bottom	4 1/2" x 40	54	50
Floors	45" x 50	51	52	52	" " Vertical	6" x 50	38 x 32 x 42	64 x 54
Brackets at Margin	45" x 50	51	52	52	Side girders Top	3 1/2" x 52 x 44	52 x 32 x 42	54
Margin Plate	45" x 50	50	50	54	" " Bottom	3 1/2" x 52 x 44	52	44
Gussets under lower deck to every 3 <sup>rd</sup> frame.	45" x 52	42	51	52	" " Vertical	6" x 50	3 1/2" x 32 x 42	64 x 54
Gussets where under lower deck to every 2 <sup>nd</sup> frame.	45" x 52	42	51	52	Margin Plate " "	4 1/2" x 50	50	52
Middle line Strake	45" x 52	42	51	52	Frames	3 1/2" x 52 x 44	52	44
Side Strakes	45" x 52	42	51	52	Reverse frames	3 1/2" x 52 x 44	52	54

Riveting: Butts of Centre girder, Margin Plate & Middleline strake capped and treble riveted, full length. Butts of landing double riveted for half length, treble in Engine and boiler space, single at ends. Edges of middle line strake double riv. full length. Remainder of edges double in Engine & Boiler space, single in holds.

Double frames on Tankfloors forward of 3/4" L. am. Double reserve frames in Engine Space and under Boiler boars.  
Depth of Margin Plate below Lowerdeck at forward end reduced to 32".

Rise of Tanktop 3"

6" 6" angles from Collision bulkhead to after end of Engine room.





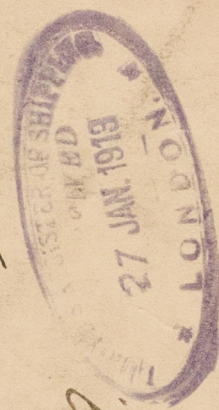
Scale  $\frac{1}{2}$ " = 1 Foot.  
Class + 100 Al.



Mrs. Joh. G. Tecklenborg A.G. No 261 "Freiburg"

Main boiler Nos 456, 57, 58, 59.

Boiler E 25.1.13.



247. "Luseldorf" \*  
Bmn. 103.

how named Patagonia  
Disclass 150

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248. "Essen"  
Bmn. 154.

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251. "Lüneburg"  
Bmn 199

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261. "Freiburg"  
Bmn. 384.

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Messrs. Joh. C. Tucklenborg A.G. No 251 & 261.

Main boilers

Bunn letter E 22.10.12.

251 ss "Lüneburg"

Bunn No 199

261 ss "Freiburg"

Bunn No 384.



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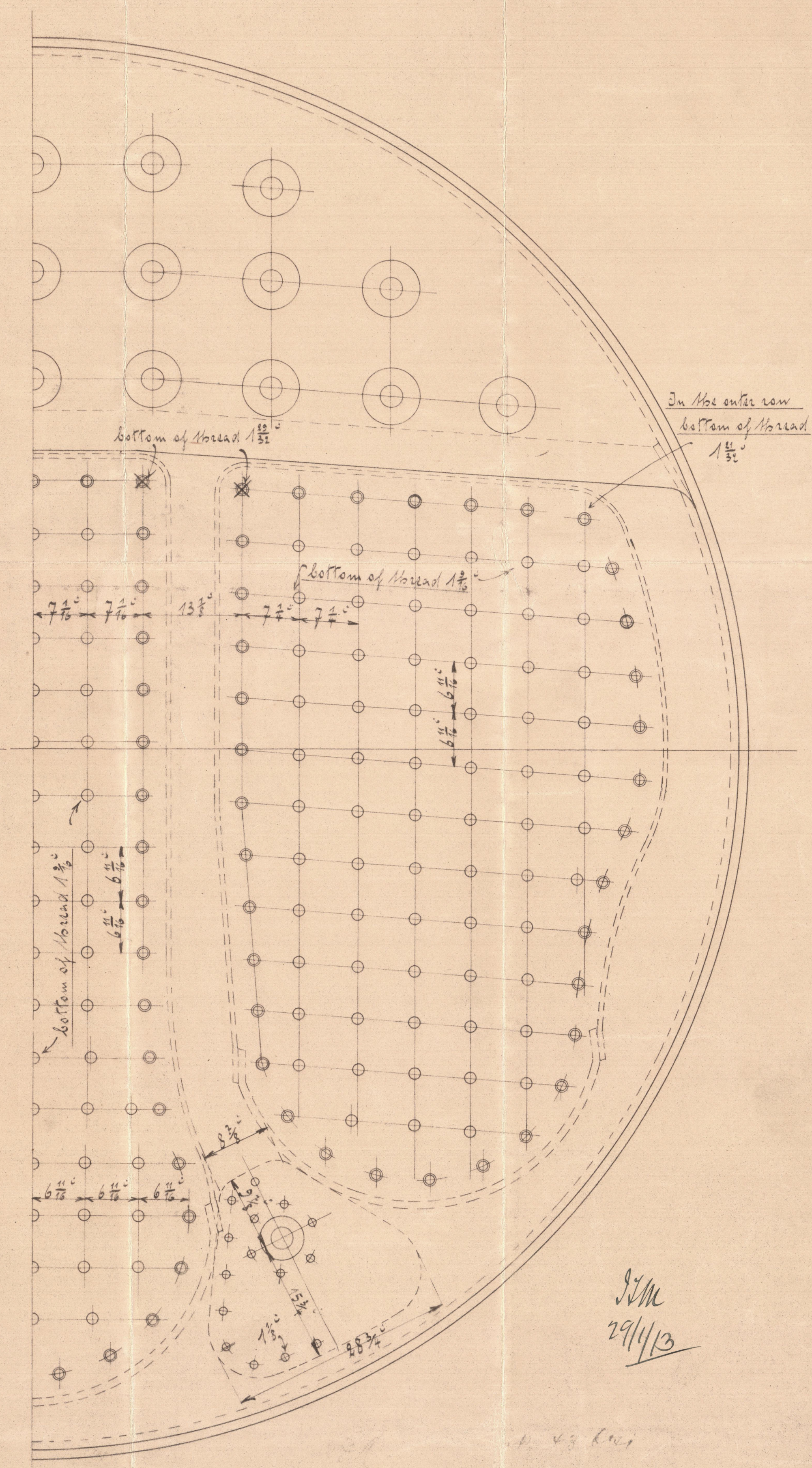
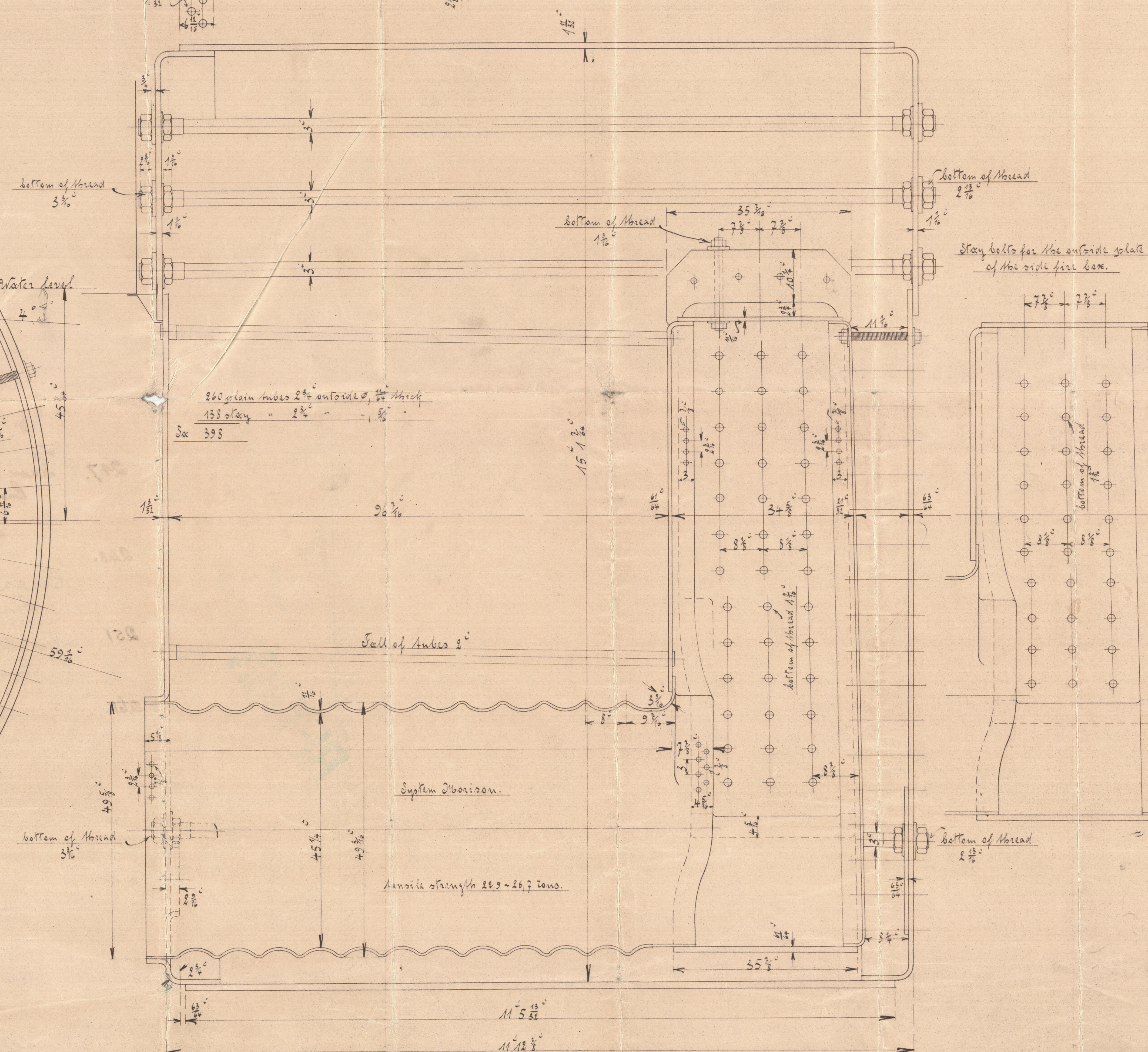
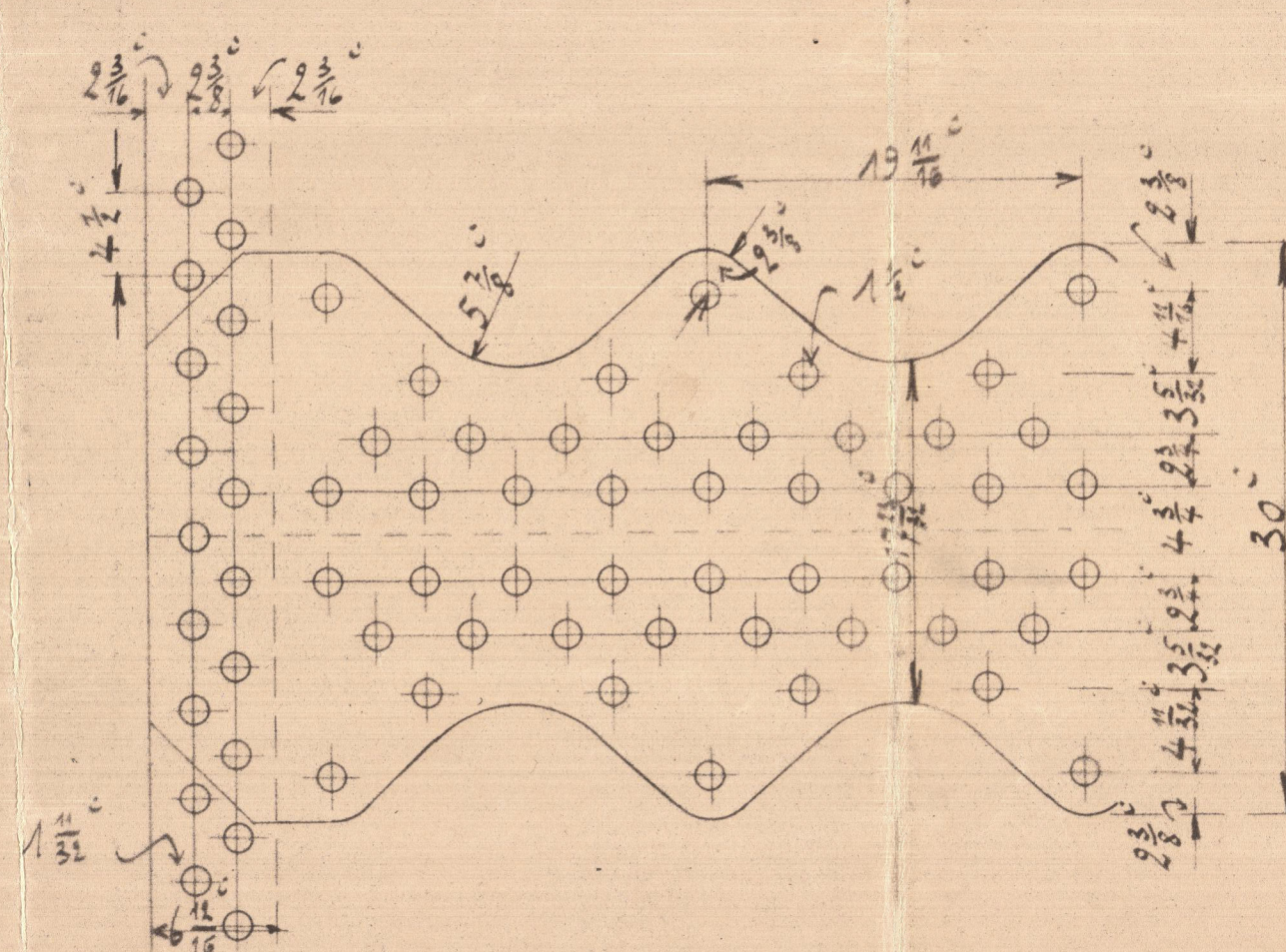
Material: Siemens Martin Steel.  
Shell plating and girders female strength of 27.0 - 32.4 tons  
Elongation 28.5%  
All the other material 28.0 - 29.0 tons sq. inch female strength.  
Elongation 26%  
All stay bolts with nuts and washers; material Siemens Martin Steel  
female strength 25.4 - 28.6 tons sq. inch.

[illegible]

1:10.

20/11/11

30/1/13



JM  
29/4/13